(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



. 1 EURO 1807 EURO 1819 EURO 1

(43) International Publication Date 26 May 2005 (26.05.2005)

PCT

(10) International Publication Number WO 2005/048599 A1

(51) International Patent Classification⁷: H04M 1/00

H04N 7/14,

(72) Inventor; and

(21) International Application Number:

PCT/FI2004/050159

 (75) Inventor/Applicant (for US only): SCHRODERUS, Osmo [FI/FI]; Taipaleentie 19, FI-44280 Sumiainen (FI).
(74) Agent: KESPAT OY; P.O. Box 601, FI-40101 Jyväskylä

(22) International Filing Date:

11 November 2004 (11.11.2004)

(25) Filing Language:

Finnish

(26) Publication Language:

English

(30) Priority Data:

20035210

14 November 2003 (14.11.2003) FI

3 (14.11.2003) FI

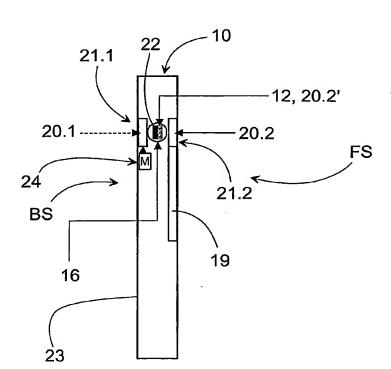
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FI-02150 Espoo (FI).

(54) Title: ROTATABLE CAMERA



(57) Abstract: The invention relates to an electronic device (10), which includes - a case structure (23), - a display component (19) fitted in connection with the case structure, - camera devices that can be oriented, fitted inside the case structure, including an image sensor (12) fitted entirely inside and optics (20.1, 20.2, 20.2'), and - an aperture arrangement (21.1, 21.2) fitted in the case structure, for exposing the image sensor from the outside, and in which the image sensor is arranged to be rotatable to at least two exposure directions (FS, BS), according to which the aperture arrangement (21.1, 21.2) is arranged in the case structure. At least part of the optics (20.2') is arranged to be rotatable along with the image sensor (12).

WO 2005/048599 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.